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**EMBOSS Align Results** 

Training

Water Results				
Matrix	Blosum62			
Open gap penalty	10.0			
Gap extension penalty	0.5			
Water output	water-20090211-19444737379758.output			

```
# Program: water
# Rundate: Wed Feb 11 19:44:49 2009
# Align_format: srspair
# Report_file: /ebi/extserv/old-work/water-20090211-19444737379758.output
*****************************
# Aligned sequences: 2
# 1: EMBOSS_001
# 2: EMBOSS_001
# Matrix: ERLOSUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
# Length: 138
# Identity:
             26/138 (18.8%)
# Similarity:
              50/138 (36.2%)
# Gaps:
              27/138 (19.6%)
# Score: 42.0
t------
EMBOSS_001
              90 STVKIPFRCRCNGDVGQSDRL----PIYVVQPQDGLDAIARNVFNAF
                                                                132
                  The Charles and Laborator and Co.
                                         attend bedreiter
EMBOSS 001
              257 SSTQVEVASLCAGQESQASELKQLSADQTLYAFYDK-GSQIIEDSVKPVS
                                                                305
EMBOSS_001
              133 VTYQEIAAANN-----IPDPNKINVSQTLWIPLPCSCDKEEGSNVMHL
                                                                175
              ::...|::|| |.|...:..: .|...::.::
306 ISDVAITSTNNHTVAHGEIIDDQSMDADE------KKVARKSLTRI
EMBOSS_001
                                                                345
EMBOSS_001
              176 AYSVGKGENTSAIAAKYGVTESTLLTRNKIDDPTKLQM
                  EMBOSS_001
              346 RTSVGASEESQLIGREKEISEITHLILN--NDSQQVQV
                                                     381
t-----
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Matrix Blosum62 Open gap penalty 10.0 Gap extension penalty 0.5 Water output water-20090211-19470451719976.output SUBMIT ANOTHER JOB

\*

# Program: water
# Rundate: Wed Feb 11 19:47:05 2009 # Align\_format: srspair

Training

# Report file: /ebi/extsery/old-work/water-20090211-19470451719976.output \*

t-------

# 2: EMBOSS 001 # Matrix: EBLOSUM62 # Gap\_penalty: 10.0 # Extend\_penalty: 0.5 # Length: 138 26/138 (18.8%) # Identity: # Similarity: 50/138 (36.2%) # Gaps: 27/138 (19.6%)

# Aligned sequences: 2 # 1: EMBOSS\_001

# Score: 42.0

.

EMBOSS 001 62 STVKIPFRCRCMGDVGQSDRL-----PIYVVQPQDGLDAIARNVFNAF attend fortering EMBOSS\_001 257 SSTQVEVASLCAGQESQASELKQLSADQTLYAFYDK-GSQIIEDSVKPVS EMBOSS\_001 105 VTYQEIAAANN-----IPDPNKINVSQTLWIPLPCSCDKEEGSNVMHL 

EMBOSS\_001 EMBOSS\_001 148 AYSVGKGENTSAIAAKYGVTESTLLTRNKIDDPTKLQM EMBOSS\_001 346 RTSVGASEESQLIGREKEISEITHLILN--NDSQQVQV 381

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EBI Groups Training **EMBOSS Align Results** 

### Water Results

Matrix **DNAfull** Open gap penalty 10.0 Gap extension penalty 0.5

Water output water-20090211-19531104533996.output

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### ............

# Program: water # Rundate: Wed Feb 11 19:53:11 2009 # Align\_format: srspair

# Report\_file: /ebi/extserv/old-work/water-20090211-19531104533996.output \*

# Aligned\_sequences: 2 # 1: EMBOSS\_001 # 2: EMBOSS 001

# Matrix: EDNAFULL # Gap\_penalty: 10.0 # Extend\_penalty: 0.5

# Length: 1999 # Identity:

EMBOSS 001

724/1999 (36.2%) # Similarity: 724/1999 (36.2%) # Gaps: 1073/1999 (53.7%) # Score: 926.5

\*-----

EMBOSS\_001 1 atggcgtcgctcaccgccgcc-----ct----ggcca Hiladiaa Halifall 11 EMBOSS\_001 173 atgatgttgaggacagcctccaggatttcgctgttcatcttaagaggcca 222 EMBOSS\_001 29 ogcoggoggocgctgccctcctcctcgt--cctcctcg-ccgccccc 75 dalidibaar THEFT THE THEFT EMBOSS\_001 223 tcctggtggcgatt------tcctcgtacgctgctcgagcggcacc 262 EMBOSS. 001 76 gcctccgccgccaacttcacctgcgc-ggtg----gcttcaggcacca-118 .1..11111 EMBOSS\_001 263 g----tgtggccaa------gcagatgaaggagctt-aggaacaag 297 EMBOSS\_001 119 --cctgcaagtccgcca------tcctctacacctc 146 Tariataintainn 11.11.1...111 EMBOSS\_001 298 gtcgaggatgtcagccagaggaatgtgcggtaccacctcatcaagggctc 347 EMBOSS 001 147 ccccaacgccacca-----cctac--ggcaacctcgtcgcccgctt---

addisidadi. tion amona EMBOSS\_001 348 tgccaaggccaccatcaattcc-actgagcaatctag----cg-ttatt EMBOSS\_001 186 -caaca-ccaccaccctccccgacctcctcggc-----gccaacgg TABLE 111 T. JIDDE 11 1.11 EMBOSS\_001 391 gctacagcca------tattcggcattgacgatgc--aagg

EMBOSS\_001 225 cctcccgacggcacg------ctt-tcc-----Teleffeción d 111 111 EMBOSS\_001 424 cqtqccqcaaagcaggacaatcagagagtggatcttgtccaactaatcaa 473

EMBOSS_001	474	cagtgaggatcaggacctaaaagtgatcgcggtctggggaacaagtggtg	523
EMBOSS_001	261	cgccaacca-ccgtc 	276
EMBOSS_001	524	a tatgggccaaacaacaataatcaggatggcttatgagaacccagatgtc	573
EMBOSS_001	277	aaaatcccttccgctgccgctgcaacggcgacgtcggc	315
EMBOSS_001	574	.         .	620
EMBOSS_001	316	cagtcggaccgcctcccatctacgtcgtgcagccg	351
EMBOSS_001			670
EMBOSS_001	352	caggacgggctcgacgcca	370
EMBOSS_001		.            aggggttgaagctctgttggagaaagagaagacagaacaagatttag	718
EMBOSS_001	371	tctc	387
EMBOSS_001	719		768
EMBOSS_001	388	aacg-cct-tcgtcacctaccaggagategccg	418
EMBOSS_001	769	aatgacctatccaccattgaagagtgggaccagattaagaaat-gctt	815
EMBOSS_001	419	ccgcgaacaacatcccaaca    .  .  .	445
EMBOSS_001	816	ccaaaaatgcaggaaaggaagccgaatcatagtgtcaagcactca	860
EMBOSS_001	446	agataaatgtcagccagacg	465
EMBOSS_001	861	agttgaagttgcaagcttatgtgctgggcaagaaagccaagcctcaga-g	909
EMBOSS_001	466	ctgtggattccgctgccctgca-gctgcgacaag	498
EMBOSS_001	910	ctaaagcaattgtctgctgatcagaccctttacgcattctacgacaaggg	959
EMBOSS_001	499	agggaaggctctaacgtgatgca	521
EMBOSS_001	960	ttcccaaattatagaggattcagtgaagccagtgtctatc-tcggatg	1006
EMBOSS_001	522	cctcgccgg	539
EMBOSS_001	1007	tggccatcacaagtacaaacaatcatacagtggcccatggtgagatta	1054
EMBOSS_001	540	gaaggggagaacacgtcggcga	562
EMBOSS_001	1055	tagatgatcaatcaatggatgctgatgagaagaaggtggctagaaagagt	1104
EMBOSS_001	563	tcgctgccaagtacggggtgacggagtccacgcttct	599
EMBOSS_001	1105	cttactcgcattaggacaagtgttggtgcttcggaggaatca	1146
EMBOSS_001	600	caccagaaataagatcgacgacccacgaa	629
EMBOSS_001	1147	caacttattgggcgagagaagaaatatctgaaataacacactta	1191
EMBOSS_001	630	attgcagatgggacagattctagatgtcccgctccctgtgt	670
EMBOSS_001	1192	attttaaaca-atgatagccagcaggttcaggtgatctctgtgt	1234
EMBOSS_001	671	ggttcatcaa	682
EMBOSS_001	1235	ggggaatgggtggccttggaaaaaccaccctagtaagcggtgtttatcaa	1284
EMBOSS_001	683	tcacaa	707
EMBOSS_001	1285	agcccaaggctgagtgataagtttgacaagtatgtttttgtcacaa	1330
EMBOSS_001	708	tctgatgc-tcctcccggatg-gc	729
EMBOSS_001	1331	  atgcgtcctttcattcttgtagagctccttaggagtttggctgagc	1378
EMBOSS_001	730	acctatggattc	741

EMBOSS_001	1379	${\tt aactacataaaggatcttctaagaaggaagaactgttagaaaatagagtc}$	1428
EMBOSS_001	742	accgcaggaaact-gcatccgctgcagct	769
EMBOSS_001	1429	agcagtaagaaatcactagcat-cgatggaggataccgagttgactgg	1475
EMBOSS_001	770	gcagt	774
EMBOSS_001	1476	gcagttgaaaaggcttttagaaaagaaaagttgcttgattgttctagatg	1525
EMBOSS_001	775	tcaactacctaccagctaaa	794
EMBOSS_001	1526	.     atttctcagatacctcagaatgggaccagataaaaccaacgttattcccc	1575
EMBOSS_001	795	ctgcactgcagtacagaacaaggg	818
EMBOSS_001	1576	.   .   ctgttggaaaagacaagccgaataattgtgactacaagaa-aagag	1620
EMBOSS_001	819	atgcccgtcagtgccactgtgcaatggaacg	849
EMBOSS_001	1621	aatattgccaaccattgc-tcagggaaaaatggaaatgtgcacaacc	1666
EMBOSS_001	850	ctgaagcttg-gtga	863
EMBOSS_001	1667	. .    ttaaagttettaaacataatgatgeattgtgeetettgagtgagaaggta	1716
EMBOSS_001	864	gacgaacggc-accggttgcggatcaacaacgtgcgcctacag	905
EMBOSS_001	1717		1756
EMBOSS_001	906	tggttactccaacagttcatcgctcatc-atacaaaccag	944
EMBOSS_001	1757	agttggttaaagaagcaaaacaaatcctaaagaag	1791
EMBOSS_001	945	ccttgcaactaat	957
EMBOSS_001	1792		1841
EMBOSS_001	958	cagacaacagcctgccagagaggag	982
EMBOSS_001	1842	ccgaccaaagaccccagaagagtggagaaattgaacgagaatatcaa	1889
EMBOSS_001	983	gatctgggaggtcgcagttc	1002
EMBOSS_001	1890	tgctgagttggaaatgaatccagagcttggaatgataagaaccgtccttg	1939
EMBOSS_001	1003	gctaggtccatgtggag-catgtctgttatct	1033
EMBOSS_001	1940	aaaaaagctatgatggtttaccataccatctcaagtcatgtttttatat	1989
EMBOSS_001	1034	ccttccacatggtgttgatcatta-tctgttt	1064
EMBOSS_001	1990	ctgtccattttccctgaagaccagatcattagtcgaaggcgttt	2033
t			

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# EBI Groups Training **EMBOSS Align Results**

### Water Results

DNAfull Matrix Open gap penalty 10.0 Gap extension penalty

Water output

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0.5

water-20090211-19552600313170.output

\*

# Program: water # Rundate: Wed Feb 11 19:55:28 2009 # Align\_format: srspair

# Report\_file: /ebi/extserv/old-work/water-20090211-19552600313170.output \*

# Aligned seguences: 2 # 1: EMBOSS\_001 # 2: EMBOSS 001

# Matrix: EDNAFULL # Gap\_penalty: 10.0 # Extend\_penalty: 0.5

# Length: 1972 710/1972 (36.0%) # Identity:

# Similarity: 710/1972 (36.0%) # Gaps: 1059/1972 (53.7%) # Score: 935.5

EMBOSS\_001 5 cgtcgct-caccg-----ccgccctggccacgcc Titta II TITLI EMBOSS\_001 453 cgtgactccaccgtacgcttgagatcttggtactccgccctgg------495 EMBOSS\_001 33 ggcggccgctgcctcct---ctc--ctcgtcctcctcgccgcccccgc 77 EMBOSS\_001 496 -----tgcgctcatcagcctcaactcgt-ttcttctcattcccttc 535 EMBOSS\_001 78 ctc----acctg--cqcqq 103 أأأأنا أالله .11.1 THEFT EMBOSS\_001 536 cacaagttqcagaaggaggtccaacttcttatcagtctccatggcctcgg 585 EMBOSS\_001 104 ---tggcttcaggcaccacctgc-----aagtccgccatcctcta 140 III dunidunadii 11.0000.000 EMBOSS 001 586 atctgg-atcaggtacctactgctctcgctccgaattccgcgaacct---

EMBOSS 001 141 cacctcccccaacgccaccaccta--cggcaa----cctcgtcgc----c H JIIII HIGHT EMBOSS 001 632 -----tagggggcaagtttccttttcgcggtgc EMBOSS\_001 181 cgct-----tcaacacca--ccaccc-----tcccc----11.1 111-1-111 111111 111.11 EMBOSS\_001 660 cgatccgaagatcagctccaatccaccccaaggaacaatttcaccgcaga

EMBOSS 001 205 -----EMBOSS\_001 710 atcaagagaatttgagaagcaagagggctctgataccagattgtcagga

EMBOSS\_001 207 cctc----ctcggc------gccaac 4114 L-HH

EMBOSS_001	760	teteagaaateageaagaacaacaagaacacaaaggatteaggeaac	809
EMBOSS_001	223	ggcetecegaeggcaegettteeteegee	252
EMBOSS_001	810	tagtttggattgatctgctccaacccaacaggattgagccttccgccgcc	859
EMBOSS_001	253	cccgtcgccgccaattc	269
EMBOSS_001	860	.   .  .	909
EMBOSS_001	270	caccgtcaaaatccccttccgctgcc-gctg	299
EMBOSS_001	910	.  .       .    .    .   ttatacagt-agtatotocotactoacaggacacacacaggagccagctg	958
EMBOSS_001	300	caacggcgacgtcggccagtcggacc	325
EMBOSS_001	959		1008
EMBOSS_001	326	gcctccccatctacgtcgtgcag    -      -  -	348
EMBOSS_001	1009	attgggctttggccctcttgtgggtcttgctcttcctggagtagtct	1058
EMBOSS_001	349	gc-aggacgggctcgacgccatcgcg	375
EMBOSS_001	1059	gtatctcctcctcctggacttcagcttctgcttcatcaggtt	1100
EMBOSS_001	376		388
EMBOSS_001	1101	$\tt ctccttcttcaggttccttctctccctgttcagcttctgcttcatcaggt$	1150
EMBOSS_001	389	acgccttcgtca	403
EMBOSS_001	1151	totocttottcagtacccatagtgacaggcaggttcctgacaaaattctg	1200
EMBOSS_001	404	accaggag	411
EMBOSS_001	1201	ctcgtttgcgaccaatggtagtgatcatagttgcaaccaggaggggggg	1250
EMBOSS_001	412	atcgccgccgcgaacaacatcccgaccccaacaag	447
EMBOSS_001	1251	ggggaaatcgccgtccctccgctcctc-tcccgtcgtccccaacg	1295
EMBOSS_001	448	ataaatgtcagc-cagacgctgtg	470
EMBOSS_001		${\tt cctcgttcgcgcatttcgttgaacaccatgacggcgccgaattcgcagtg}$	1345
EMBOSS_001	471	gattccgctgccctg-cagctgcgacaa	497
EMBOSS_001	1346	tccgcacatctcctcctcccccgtcctctccaaaccccaaaccctat	1392
EMBOSS_001	498	ggaggaaggctctaacgtgatgcacctcg	526
EMBOSS_001	1393	ctccacccccgaggcaggcgccccatgcacttgtaagtcgattgga	1439
EMBOSS_001	527	cctacagcgtcggcaaagggga	548
EMBOSS_001	1440	tgtcctgtcccagaagacatatcgagcgaggaggcggaggggggacgaa	1487
EMBOSS_001	549	gaacacgtcggcgatcgctgc	569
EMBOSS_001		gggaacatatcgagcgaggaagcggagggtggatcggcatcccccatt	1535
EMBOSS_001	570	-caagtacggggtgacggagtccacgcttct-	599
EMBOSS_001		tcaaggtactatactagtccattatagtagtagtgcttttg	1576
EMBOSS_001	600	caccagaaataagatcgacgaccccacgaaattgcagatg	639
EMBOSS_001	1577	catcttagaaaaaaaaatatgttcattag	1605
EMBOSS_001	640	ggacagattctagatgtcccgctccctgtg	669
EMBOSS_001	1606	ccattgagagcttctgaagttgttgattttgttccaaccccaactgtgag	1655
EMBOSS_001	670	-tgccgttcatcaatcagcgatacetcagetgatcacaa	707

EMBOSS_001	1656	tttcagttcaggtcatccactgattttcactatgccaa	1693
EMBOSS_001	708	tetgatgeteetceeggatggcacetatggatteacegcagga	750
EMBOSS_001	1694	ttctctgaaacaactttaccactgtcacatgaacacactga	1734
EMBOSS_001	751	aactgcatccgctgcagctgca	772
EMBOSS_001	1735	aacagtttggtgtagacg-tgtagtgaagaatgtagcatatataccttca	1783
EMBOSS_001	773	gttcaactacctaccagctaaactgcactgc	805
EMBOSS_001	1784	cttaatttttcttgcaattattggccattactagttatgcgagg	1827
EMBOSS_001	806	tacagaacaagggatgcccgtcagtgccact	836
EMBOSS_001	1828	tagaagtgttctaaggtactgtatcatttttatgtactaattaat	1872
EMBOSS_001	837	gtgcaatggaacgcag	855
EMBOSS_001	1873	taagtttaat-aaaaacttttattatctaaaaataaatgactattactag	1921
EMBOSS_001	856	cttggtgagacg	867
EMBOSS_001	1922	ctcggtactccctttattttatattataagacgttttgattttttatat	1971
EMBOSS_001	868	aacggcaccggttgcggatcaacaacgtgcgc	899
EMBOSS_001	1972	acaactttctttaagtttgattatacttataaaaaattagc	2012
EMBOSS_001	900	ctacagtggttactccaacagttcatcgct	929
EMBOSS_001	2013	${\tt aaacatatatatttttttacattaatagtgcaagtgagcacgcttaaat}$	2062
EMBOSS_001	930	-catcatacaaaccagccttgcaactaatca-	959
EMBOSS_001	2063	gcattgtacttccttcgtaaaaaaacatcaaacttttacggacgaat-at	2111
EMBOSS_001	960	-gacaagagctgccagagaggag	982
EMBOSS_001	2112	ggataaatgcatatctaaattcatcct-caataattgattctttttggag	2160
EMBOSS_001	983	gatctgggaggtcgcagttcgctaggtccatgtggagc	1020
EMBOSS_001	2161	gagtacaattggttggtgcgctttgtccttggaccctacaat	2202
EMBOSS_001	1021	atgtctgttatctccttccacatgg	1045
EMBOSS_001	2203	aatgatgattgtttctttaatctattgaccttgacttaccacatgggcta	2252
EMBOSS_001	1046	tgttgatcattatctgtttcct 1067	
EMBOSS_001	2253	tgtttatcccttcctgaatcct 2274	
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Water Results

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DNAfull Matrix Open gap penalty 10.0 Gap extension penalty

Water output water-20090211-19575081865795.cutput

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\* # Program: water

# Rundate: Wed Feb 11 19:57:51 2009 # Align\_format: srspair

# Report\_file: /ebi/extserv/old-work/water-20090211-19575081865795.output

\*

# Aligned sequences: 2 # 1: EMBOSS\_001

# 2: EMBOSS 001 # Matrix: EDNAFULL # Gap\_penalty: 10.0

# Extend\_penalty: 0.5

# Length: 1466 # Identity:

606/1466 (41.3%) # Similarity: 606/1466 (41.3%) # Gaps: 701/1466 (47.8%)

# Score: 922.5

EMBOSS\_001 3 caacttcacctgcgcggtggcttcaggcaccacct-----qcaaqtcc III. I I.I.II. III. III. III. EMBOSS\_001 118 caagat-aacagcaaggtgg--tcaag---acttgggtgaagcaagtcc

EMBOSS 001 46 gccatcctctacacctccccaacgccaccacct-----acggcaa 4141114 EMBOSS\_001 161 g-----tgacactgcctatgatgttgaggacag EMBOSS\_001 87 cctc----gtcgc----cgcttcaaca--ccaccaccctcc----c

119 .1111 1..111 11.1 111 TITLE 111 189 cctccaggatttcgctgttcatctt-aagaggcca----tcctggtgg EMBOSS\_001 231 EMBOSS\_001 120 cgacctcctcggcgccaacggcctccccga-cggcac-----Title-HIIII 2 THE HEALTH THE

EMBOSS 001 232 cgatttcctcg----tacg--ctgctcgagcggcaccgtgtggccaagc 274 EMBOSS 001 156 -----tcctcc-----165 EMBOSS 001 275 agatgaaggagcttaggaacaaggtcgaggatgtcagccagaggaatgtg 324

EMBOSS\_001 166 ----gcccc-----gtcgccgccaattccaccgtcaaaatcccctt 203 datahunannann. . 11.11 EMBOSS\_001 325 cggtaccacctcatcaagggctctgccaaggccaccatcaa-----tt 367

EMBOSS 001 204 ccgctgccgctgcaa----cg----gcgacgtcggcc--agtcggacc EMBOSS 001 368 ccactg----agcaatctagcgttattgcta---cagccatattcgg---407 EMBOSS 001

242 gcctccccatctac-----gtcgtgcagc--cgcaggacgggctcgac illian fathfati duffi

EMBOSS_001	408	cattgacgatgcaaggcgtgccgcaaagcagga	440
EMBOSS_001	283	gccategcgcgcaacgtgttcaacgccttcgtcacctacca	323
EMBOSS_001	441	-caatcagagagtggatcttgtccaactaatcaacagtgaggatca	485
EMBOSS_001	324	ggagategeegecgegaacaacateceegace	355
EMBOSS_001	486	ggacctaaaagtgatcgcggtctgggggaacaagtggtgatatgggc	531
EMBOSS_001	356	ccaacaa-gataaatgtcagccagacgctgt	385
EMBOSS_001	532	caaacaacaataatcaggatggcttatgagaacccagatgtccaaat	578
EMBOSS_001	386	-ggattccgctgccctgcagctgcgacaaggagg-aaggctctaacgtga	433
EMBOSS_001	579	cagattcccatgccgtgcatgggtaagggtga	610
EMBOSS_001	434	tgca-cctcgcctacagcgtcggcaaaggggagaacacgtcg	474
EMBOSS_001	611	tgcatcctttcagtccaagagactttgtccagagcttg	648
EMBOSS_001	475	gcg-atc-gctgccaagtacggggtgacggagtccacgcttc	514
EMBOSS_001	649	gtgaatcagcttcatgcaacccaaggggttgaag	683
EMBOSS_001	515	tcaccagaaataagatcgacgacccacgaaattg	549
EMBOSS_001	684	tctgttggagaaagagaagacagaacaagatttagctaagaaatt-	728
EMBOSS_001	550	cagatgggacagattctagatgtcccgctccctgtg	585
EMBOSS_001	729	caatggatgtgtgaatgatagga-agtgtcta-attg	763
EMBOSS_001	586	tgccgttcatcaatcagcgatacctcagctgat-cacaatctgatgctcc	634
EMBOSS_001	764	tgcttaatgacctatccaccat-tga	788
EMBOSS_001	635	tcccgga-tggcacctatggattcaccgcaggaaa	668
EMBOSS_001	789	agagtgggaccagattaagaaatgcttccaaaaatgcaggaaagga	834
EMBOSS_001	669	ctgcatccgctgcagctgcagtt	691
EMBOSS_001	835	agccgaatcatagtgtcaagcactcaagttgaagttgcaagcttatgtgc	884
EMBOSS_001	692	caactacctaccagctaaactgcactgcagtaca	725
EMBOSS_001	885	tgggcaagaagccaagcctcagagctaaagcaattgtctgctgatca	932
EMBOSS_001	726	gagtca	744
EMBOSS_001	933	gaccctttacgcattctacgacaaggg-ttcccaaattatagaggattca	981
EMBOSS_001	745	gtgccactgtgcaatggaacgctgaag 	771
EMBOSS_001	982	gtgaagccagtgt-ctatctcggatgtggccatcacaagtacaaac	1026
EMBOSS_001	772	gcaccggttgc	798
EMBOSS_001 1	027	aatcatacagtggcccatggtgagattatagatgatcaatca	1076
EMBOSS_001	799	ggatcaacaacgtgcgcctacagtggttactccaa	833
EMBOSS_001 1	077	tgatgagaagaagtggctagaaagagt-cttactcgcattaggacaa	1123
EMBOSS_001	834	cagttcatcgctcatcatacaaaccagccttgc	866
EMBOSS_001 1	124	gtgttggt-gcttcggaggaatcacaacttattgggcgagag	1164
EMBOSS_001	867	aactaatcagacaacagcctgc	888
EMBOSS_001 1	165	aaagaaatatetgaaataa-cacacttaattttaaacaatgatagecage	1213
EMBOSS_001	889	cagagaggaggatctgggaggtcgc 	913

EMBOSS_001	1214	aggttcaggtgatctctgtgtggggaatgggtggccttggaaaaa	1258
EMBOSS_001	914	agttcgctaggtccatg	930
EMBOSS_001	1259	ccaccctagtaagcggtgtttatcaaagcccaaggctgagtgataagt	1306
EMBOSS_001	931	tggagcatgtctgttatctccttccacatggtgttg	966
EMBOSS_001	1307	ttga-caagtatgtttttgtcacaatcatgcgtcctttca-ttcttgtag	1354
EMBOSS_001	967	atcattatctgttt 980	
EMBOSS_001	1355	agctccttaggagttt 1370	



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EBI Groups Training **EMBOSS Alian Results** 

### Water Results

Matrix Open gap penalty Gap extension penalty

Water output

SUBMIT ANOTHER JOB

Blosum62 10.0 0.5

water-20090211-19593453477019.outout

\*

# Program: water # Rundate: Wed Feb 11 19:59:36 2009

# Align\_format: srspair

Report\_file: /ebi/extserv/old-work/water-20090211-19593453477019.output \*

## # Aligned\_sequences: 2

# 1: EMBOSS\_001 # 2: EMBOSS\_001 # Matrix: EBLOSUM62

# Gap\_penalty: 10.0 # Extend\_penalty: 0.5

# Length: 1521 # Identity:

628/1521 (41.3%) 628/1521 (41.3%) # Similarity: 566/1521 (37.2%) # Gaps: # Score: 2769.0

EMBOSS 001 1 gcc----gcggtg-----g 22 in. EMBOSS\_001 200 gccgtttatctgctggtgctcctcttgctgtagtagtgttgttggtgttg 249 EMBOSS\_001 23 cttcaggc-acc-----acctg-----caagtccgccatcct-53 Halaila III -1.1f orinainna. EMBOSS\_001 250 ctgctgatgacctaaaatgcttgcatgtttctatcatgttctccataatg 200 EMBOSS\_001 54 -----ctacacctccc-----ccaacgccaccac 77 Hallallall Hilliandalli EMBOSS\_001 300 tagtatcatgtactccatcttccttgttggtttttgtccataatctccac 349

EMBOSS 001 78 ctacggcaac-----ttc 102 The little 1111 1.1.11.1 EMBOSS 001 350 ctt-ggcagcttgcatcatcttactctcgagcttgtccaccttgagattc 398 EMBOSS\_001 103 aacacc---ac---caccc----tcc-ccgac--ctcctcggc--g 133 10.01 11 1.101 - no nác amaiúc i EMBOSS\_001 399 aactcctggaacgcggctcccagttcatccaccctcttctccacggcagg 440

EMBOSS 001 134 ccaacg-gcctcc-ccgacggcacg---ctt--tcctccgcccccgt-c 174 EMBOSS 001 449 aatccgtgactccaccgtacgcttgagatcttggtactccgccctggtgc 498 EMBOSS\_001 175 g----ccgccaattccac-cgtcaaaatccccttccgctgccgctgcaa

Tall that the contradition is 499 gctcatcagcc---tcaactcgt-ttcttctcattcc-cttccac----a EMBOSS\_001 EMBOSS\_001 219 cggcgacgtcggccagtcggaccgcctccccatct-acgtcqtqcaqccq

defeirli dimentioni incidit inc

_			
EMBOSS_001	261	3 caggacgggctcgacgccatcgcgcgcaacgtgttcaacg  -  -  -            -	307
EMBOSS_001	583	cggatctggatcaggtacctactgctctcgctccgaattccgcgaacctt	632
EMBOSS_001	308	ccttcgtcacctaccaggagatcgc	332
EMBOSS_001	633	aggggcaagttteettttegeggtgeegateegaagatcageteeaate	682
EMBOSS_001	333	cgccgcgaacaacatccccgaccccaacaagataaatgtca	373
EMBOSS_001	683	caccccaaggaacaatttcaccg-cagaatcaagagaatttgagaagcaa	731
EMBOSS_001	374	gccagacgctgtggattccgc-tgcc	399
EMBOSS_001	732	gagaggctctgataccagattgtcaggatctcaagaaatcagcaaagaac	781
EMBOSS_001	400	tgcagctgcg-acaaggaggaaggc-tctaacgtgatgcacctcgcct	445
EMBOSS_001	782	.             .     .	831
EMBOSS_001	446	${\tt acagcgtcggcaaaggggagaacacgtcggcgatcgctgccaagtacggg}$	495
EMBOSS_001	832	.         .   .    .   .  .  acccaacaggattgagc-cttccgccgccaccgccaccgag	871
EMBOSS_001	496	gtgacggagtccacgcttctcaccagaaat	525
EMBOSS_001	872	.  . .  .    .    .  .  .  . .  ttgccagttcatagttgtctttctcgagttcatcttatttat	921
EMBOSS_001	526	aagatcg-acgaccccacgaaattg-cagatgggacagatt-	564
EMBOSS_001	922	atctccctactcacacga-cacacacagtagccagctgtacaacagatag	970
EMBOSS_001	565	ctagatgtcccgctccctgtgtgccgttcat	595
EMBOSS_001	971	ctgggctacgcaacccactcggacccatggtaacgaggattgggctttgg	1020
EMBOSS_001	596	caatc-agcgatacctcag-ctgatcacaatctgatgctcct	635
EMBOSS_001	1021	ccctcttgtgggtcttgctcttcctggagtagtagtctgtatctcctcct	1070
EMBOSS_001	636	cccggatggca-cctatggattcaccgcaggaaactgc	672
EMBOSS_001	1071	cotggacttcagcttcatcaggttctccttcttcaggttccttc	1120
EMBOSS_001	673	atccgctgcagctgcagttcaactacc	699
EMBOSS_001	1121	tetecetgttcagettctgettcatcaggttctccttcttcagtacccat	1170
EMBOSS_001	700	taccag-ctaaactgcactgcagta	723
EMBOSS_001	1171	agtgacaggcaggttcctgacaaaattctgctcgtttgcgaccaatggta	1220
EMBOSS_001	724	cagaacaagggatgcccgtc	743
EMBOSS_001	1221	gtgatcatagttgcaaccaggaggggggggggggggaaatcgccgtcccctc	1270
EMBOSS_001	744	agtgccactgtgcaatggaacgctgaagcttggtgagacg	783
EMBOSS_001	1271	cgctcctctcccgtcgtccccaacgcctcgttcgcgcatttcgttgaaca	1320
EMBOSS_001	784	aacggcaccggttgcggatcaacaacgtgcgcctacagtgg	824
EMBOSS_001	1321	ccatgacggcgcgaattcgcagtgtccgcacatc-tcctcctcccccgt	1369
EMBOSS_001	825	ttactccaacagttcatcgctcatcatacaaaccagcctt	864
EMBOSS_001	1370	cctctccaaaccccaaaccctatctccaccccgaggcaggc	1419
EMBOSS_001	865	gcaactaatcagacaacagcctgccagaga	894
EMBOSS_001	1420	gc-acttgtaagtcgattggatgtcctgtcccagaagacatatcgagcga	1468
EMBOSS_001	895	ggaggtgggag	908

540 agttgcagaagg----aggtccaacttcttatcagtctccatg--gcct

582

EMBOSS\_001

1318	ggaggcggaggggacgaagggaacatatcgagcgaggaagcggagggtg	1469	EWROSS_001
933	g-tcggagttcgctaggtccatgtgg	909	EMBOSS_001
1568	$\tt gatcggcatcccccatttcaaggtactatactagtccattatagtagtag$	1519	EMBOSS_001
948	agcatgtctgttatc	934	EMBOSS_001
1618	tgettttgeatettagaaaaaaaaatatgtteattageeattgagagett	1569	EMBOSS_001
968	gat	949	EMBOSS_001
1668	$\tt ctgaagttgttgattttgttccaaccccaactgtgagtttcagttcaggt$	1619	EMBOSS_001
	cattatctgtttc-ctttg 986	969	EMBOSS_001
	catecactgattttcactatg 1689	1669	EMBOSS_001